

**WEST**[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Term	Documents
THRAUSTOCHYTRIALES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	22
THRAUSTOCHYTRIALE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
THRAUSTOCHYTRIALES.USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	23

**Database:**

US Patents Full-Text Database  
 US Pre-Grant Publication Full-Text Database  
 JPO Abstracts Database  
 EPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Refine Search:

"Thraustochytriales"

[Clear](#)**Search History****Today's Date: 10/19/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"Thraustochytriales"	23	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"Thraustochytriales" and "chloride"	10	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"aquaculture" and "Thraustochytriales"	13	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"biomass" and "Thraustochytriales"	14	<u>L1</u>

**WEST**[Generate Collection](#)**Search Results - Record(s) 1 through 10 of 14 returned.**☐ 1. Document ID: US 20010000151 A1

L1: Entry 1 of 14

File: PGPB

Apr 5, 2001

PGPUB-DOCUMENT-NUMBER: 20010000151  
PGPUB-FILING-TYPE: new-utility  
DOCUMENT-IDENTIFIER: US 20010000151 A1

TITLE: Eggs containing high concentrations of omega-3 highly unsaturated fatty acids and methods for producing the same

PUBLICATION-DATE: April 5, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Barclay, William R.	Boulder	CO	US	

US-CL-CURRENT: [435/254.1](#); [119/6.8](#), [424/93.5](#), [426/53](#), [426/61](#), [426/614](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	-------

☐ 2. Document ID: US 6177108 B1

L1: Entry 2 of 14

File: USPT

Jan 23, 2001

US-PAT-NO: 6177108  
DOCUMENT-IDENTIFIER: US 6177108 B1

TITLE: Method for producing milk products having high concentrations of omega-3 highly unsaturated fatty acids

DATE-ISSUED: January 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay, William R.	Boulder	CO		

US-CL-CURRENT: [426/2](#); [426/580](#), [426/635](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	-------

☐ 3. Document ID: US 6103225 A

L1: Entry 3 of 14

File: USPT

Aug 15, 2000

US-PAT-NO: 6103225  
DOCUMENT-IDENTIFIER: US 6103225 A

TITLE: Methods of aquaculture by feeding larval shrimp Thraustochytrium and/or Schizochytrium microflora

DATE-ISSUED: August 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 424/93.1; 119/200, 119/205, 119/215, 119/230, 424/93.7, 426/61,  
426/805, 435/257.1, 435/261

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

---

☐ 4. Document ID: US 6054147 A

L1: Entry 4 of 14

File: USPT

Apr 25, 2000

US-PAT-NO: 6054147  
DOCUMENT-IDENTIFIER: US 6054147 A

TITLE: Method for increasing the incorporation efficiency of omega-3 highly unsaturated fatty acid in poultry meat

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		
Abril; Jesus Ruben	Westminster	CO		

US-CL-CURRENT: 426/2; 426/53, 426/601, 426/635, 426/807

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

---

☐ 5. Document ID: US 5985348 A

L1: Entry 5 of 14

File: USPT

Nov 16, 1999

US-PAT-NO: 5985348  
DOCUMENT-IDENTIFIER: US 5985348 A

TITLE: Milk products having high concentrations of omega-3 highly unsaturated fatty acids

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 426/580; 426/2, 426/53, 426/635

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMIC	Draw Desc	Image
------	-----------	-------

---

☐ 6. Document ID: US 5908622 A

L1: Entry 6 of 14

File: USPT

Jun 1, 1999

US-PAT-NO: 5908622  
DOCUMENT-IDENTIFIER: US 5908622 A

TITLE: Food product containing thraustochytrium and/or schizochytrium microflora and an additional agricultural based ingredient

DATE-ISSUED: June 1, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 424/93.1; 424/93.3, 426/61, 426/807, 435/243, 435/257.1, 435/41, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMIC	Draw Desc	Image
------	-----------	-------

---

☐ 7. Document ID: US 5698244 A

L1: Entry 7 of 14

File: USPT

Dec 16, 1997

US-PAT-NO: 5698244  
DOCUMENT-IDENTIFIER: US 5698244 A

TITLE: Method for raising animals having high concentrations of omega-3 highly unsaturated fatty acids

DATE-ISSUED: December 16, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 426/2; 426/53, 426/635, 426/807

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMIC	Draw Desc	Image
------	-----------	-------

---

☐ 8. Document ID: US 5688500 A

L1: Entry 8 of 14

File: USPT

Nov 18, 1997

US-PAT-NO: 5688500

DOCUMENT-IDENTIFIER: US 5688500 A

TITLE: Method of aquaculture comprising feeding microflora having a small cell aggregate size

DATE-ISSUED: November 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 424/93.1; 426/53, 426/54, 426/601, 426/608, 426/641, 426/649, 435/134, 435/243, 435/254.1, 435/261

---

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMIC	Draw Desc	Image
------	-----------	-------

---

☐ 9. Document ID: US 5656319 A

L1: Entry 9 of 14

File: USPT

Aug 12, 1997

US-PAT-NO: 5656319

DOCUMENT-IDENTIFIER: US 5656319 A

TITLE: Food product with high concentrations of omega-3 highly unsaturated fatty acids

DATE-ISSUED: August 12, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 426/574; 426/2, 426/49, 426/53, 426/602, 426/614, 426/643, 426/644, 426/645, 435/134, 435/243, 435/946

---

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMIC	Draw Desc	Image
------	-----------	-------

---

☐ 10. Document ID: US 5518918 A

L1: Entry 10 of 14

File: USPT

May 21, 1996

US-PAT-NO: 5518918

DOCUMENT-IDENTIFIER: US 5518918 A

TITLE: Microfloral biomass having omega-3 highly unsaturated fatty acids

DATE-ISSUED: May 21, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 435/257.1; 426/615, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMOC	Draw Desc	Image
------	-----------	-------

[Generate Collection](#)

Term	Documents
BIOMASS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	13044
BIOMASSES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	481
THRAUSTOCHYTRIALES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	22
THRAUSTOCHYTRIALE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
(THRAUSTOCHYTRIALES AND BIOMASS).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	14

[Display](#)[10](#) Documents, starting with Document: [11](#)**Display Format:** [CIT](#)[Change Format](#)

**WEST**[Generate Collection](#)**Search Results - Record(s) 11 through 14 of 14 returned.**☐ 11. Document ID: US 5340742 A

L1: Entry 11 of 14

File: USPT

Aug 23, 1994

US-PAT-NO: 5340742

DOCUMENT-IDENTIFIER: US 5340742 A

TITLE: Process for growing thraustochytrium and schizochytrium using non-chloride salts to produce a microfloral biomass having omega-3-highly unsaturated fatty acids

DATE-ISSUED: August 23, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: [435/256.8](#); [435/134](#), [435/254.1](#), [435/257.1](#), [435/911](#), [435/946](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>
----------------------	-----------------------	--------------------------	-----------------------	------------------------	--------------------------------	----------------------	---------------------------

<a href="#">K00C</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
----------------------	---------------------------	-----------------------

☐ 12. Document ID: US 5340594 A

L1: Entry 12 of 14

File: USPT

Aug 23, 1994

US-PAT-NO: 5340594

DOCUMENT-IDENTIFIER: US 5340594 A

TITLE: Food product having high concentrations of omega-3 highly unsaturated fatty acids

DATE-ISSUED: August 23, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: [426/49](#); [426/53](#), [426/601](#), [435/134](#), [435/243](#), [435/946](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>
----------------------	-----------------------	--------------------------	-----------------------	------------------------	--------------------------------	----------------------	---------------------------

<a href="#">K00C</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
----------------------	---------------------------	-----------------------

☐ 13. Document ID: US 5130242 A

L1: Entry 13 of 14

File: USPT

Jul 14, 1992

US-PAT-NO: 5130242  
DOCUMENT-IDENTIFIER: US 5130242 A

TITLE: Process for the heterotrophic production of microbial products with high concentrations of omega-3 highly unsaturated fatty acids

DATE-ISSUED: July 14, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 435/134; 426/49, 426/53, 426/601, 435/243, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

---

☐ 14. Document ID: US 5698244 A

L1: Entry 14 of 14

File: DWPI

Dec 16, 1997

DERWENT-ACC-NO: 1998-051447  
DERWENT-WEEK: 200119  
COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Raising animal producing flesh, milk or eggs - by using feed containing Thraustochytriales or derived highly unsaturated fatty acids, providing health food products for human consumption

INVENTOR: BARCLAY, W R

PRIORITY-DATA: 1995US-0483477 (June 7, 1995), 1988US-0241410 (September 7, 1988), 1989US-0439093 (November 17, 1989), 1990US-0580778 (September 11, 1990), 1992US-0911760 (July 10, 1992), 1994US-0292736 (August 18, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5698244 A	December 16, 1997		007	A01K067/00

INT-CL (IPC): A01K 67/00

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

---

Generate Collection



Term	Documents
BIOMASS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	13044
BIOMASSES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	481
THRAUSTOCHYTRIALES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	22
THRAUSTOCHYTRIALE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
(THRAUSTOCHYTRIALES AND BIOMASS).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	14

---

Documents, starting with Document:

**Display Format:**

**WEST**[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Term	Documents
BIOMASS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	13044
BIOMASSES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	481
THRAUSTOCHYTRIALES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	22
THRAUSTOCHYTRIALE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
(THRAUSTOCHYTRIALES AND BIOMASS).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	14

**Database:**

US Patents Full-Text Database  
US Pre-Grant Publication Full-Text Database  
JPO Abstracts Database  
EPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Refine Search:

"biomass" and "Thraustochytriales"

[Clear](#)**Search History****Today's Date: 10/19/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"biomass" and "Thraustochytriales"	14	<u>L1</u>

**WEST**[Generate Collection](#)**Search Results - Record(s) 1 through 10 of 23 returned.**☐ 1. Document ID: US 20010000151 A1

L4: Entry 1 of 23

File: PGPB

Apr 5, 2001

PGPUB-DOCUMENT-NUMBER: 20010000151  
PGPUB-FILING-TYPE: new-utility  
DOCUMENT-IDENTIFIER: US 20010000151 A1

TITLE: Eggs containing high concentrations of omega-3 highly unsaturated fatty acids and methods for producing the same

PUBLICATION-DATE: April 5, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Barclay, William R.	Boulder	CO	US	

US-CL-CURRENT: 435/254.1; 119/6.8, 424/93.5, 426/53, 426/61, 426/614

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>
----------------------	-----------------------	--------------------------	-----------------------	------------------------	--------------------------------	----------------------	---------------------------

<a href="#">KIMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
----------------------	---------------------------	-----------------------

☐ 2. Document ID: US 6177108 B1

L4: Entry 2 of 23

File: USPT

Jan 23, 2001

US-PAT-NO: 6177108  
DOCUMENT-IDENTIFIER: US 6177108 B1

TITLE: Method for producing milk products having high concentrations of omega-3 highly unsaturated fatty acids

DATE-ISSUED: January 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay, William R.	Boulder	CO		

US-CL-CURRENT: 426/2; 426/580, 426/635

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>
----------------------	-----------------------	--------------------------	-----------------------	------------------------	--------------------------------	----------------------	---------------------------

<a href="#">KIMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
----------------------	---------------------------	-----------------------

☐ 3. Document ID: US 6103225 A

L4: Entry 3 of 23

File: USPT

Aug 15, 2000

US-PAT-NO: 6103225  
DOCUMENT-IDENTIFIER: US 6103225 A

TITLE: Methods of aquaculture by feeding larval shrimp Thraustochytrium and/or Schizochytrium microflora

DATE-ISSUED: August 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 424/93.1; 119/200, 119/205, 119/215, 119/230, 424/93.7, 426/61,  
426/805, 435/257.1, 435/261

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMIC	Draw Desc	Image
------	-----------	-------

---

☐ 4. Document ID: US 6054147 A

L4: Entry 4 of 23

File: USPT

Apr 25, 2000

US-PAT-NO: 6054147  
DOCUMENT-IDENTIFIER: US 6054147 A

TITLE: Method for increasing the incorporation efficiency of omega-3 highly unsaturated fatty acid in poultry meat

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		
Abril; Jesus Ruben	Westminster	CO		

US-CL-CURRENT: 426/2; 426/53, 426/601, 426/635, 426/807

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMIC	Draw Desc	Image
------	-----------	-------

---

☐ 5. Document ID: US 5985348 A

L4: Entry 5 of 23

File: USPT

Nov 16, 1999

US-PAT-NO: 5985348  
DOCUMENT-IDENTIFIER: US 5985348 A

TITLE: Milk products having high concentrations of omega-3 highly unsaturated fatty acids

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 426/580; 426/2, 426/53, 426/635

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMC	Draw Desc	Image
-----	-----------	-------

---

☐ 6. Document ID: US 5958426 A

L4: Entry 6 of 23

File: USPT

Sep 28, 1999

US-PAT-NO: 5958426  
DOCUMENT-IDENTIFIER: US 5958426 A

TITLE: Sphingolipids and a process thereto

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moreau; Robert Arthur	Quakertown	PA		
Young; David Hamilton	Ambler	PA		
Ross, Jr.; Ronald	Jamison	PA		

US-CL-CURRENT: 424/283.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMC	Draw Desc	Image
-----	-----------	-------

---

☐ 7. Document ID: US 5908622 A

L4: Entry 7 of 23

File: USPT

Jun 1, 1999

US-PAT-NO: 5908622  
DOCUMENT-IDENTIFIER: US 5908622 A

TITLE: Food product containing thraustochytrium and/or schizochytrium  
microflora and an additional agricultural based ingredient

DATE-ISSUED: June 1, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 424/93.1; 424/93.3, 426/61, 426/807, 435/243, 435/257.1, 435/41,  
435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMC	Draw Desc	Image
-----	-----------	-------

---

☐ 8. Document ID: US 5698244 A

L4: Entry 8 of 23

File: USPT

Dec 16, 1997

US-PAT-NO: 5698244  
DOCUMENT-IDENTIFIER: US 5698244 A

TITLE: Method for raising animals having high concentrations of omega-3 highly  
unsaturated fatty acids

DATE-ISSUED: December 16, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 426/2; 426/53, 426/635, 426/807

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMC	Draw Desc	Image
-----	-----------	-------

---

☐ 9. Document ID: US 5688500 A

L4: Entry 9 of 23

File: USPT

Nov 18, 1997

US-PAT-NO: 5688500  
DOCUMENT-IDENTIFIER: US 5688500 A

TITLE: Method of aquaculture comprising feeding microflora having a small cell aggregate size

DATE-ISSUED: November 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 424/93.1; 426/53, 426/54, 426/601, 426/608, 426/641, 426/649,  
435/134, 435/243, 435/254.1, 435/261

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMC	Draw Desc	Image
-----	-----------	-------

☐ 10. Document ID: US 5656319 A

L4: Entry 10 of 23

File: USPT

Aug 12, 1997

US-PAT-NO: 5656319  
DOCUMENT-IDENTIFIER: US 5656319 A

TITLE: Food product with high concentrations of omega-3 highly unsaturated fatty acids

DATE-ISSUED: August 12, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 426/574; 426/2, 426/49, 426/53, 426/602, 426/614, 426/643,  
426/644, 426/645, 435/134, 435/243, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMC	Draw Desc	Image
-----	-----------	-------

Generate Collection

Term	Documents
THRAUSTOCHYTRIALES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	22
THRAUSTOCHYTRIALE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
THRAUSTOCHYTRIALES.USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	23

Display

Documents, starting with Document:

**Display Format:**



**WEST**[Generate Collection](#)**Search Results - Record(s) 11 through 20 of 23 returned.**☐ 11. Document ID: US 5518918 A

L4: Entry 11 of 23

File: USPT

May 21, 1996

US-PAT-NO: 5518918

DOCUMENT-IDENTIFIER: US 5518918 A

TITLE: Microfloral biomass having omega-3 highly unsaturated fatty acids

DATE-ISSUED: May 21, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 435/257.1; 426/615, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 12. Document ID: US 5340742 A

L4: Entry 12 of 23

File: USPT

Aug 23, 1994

US-PAT-NO: 5340742

DOCUMENT-IDENTIFIER: US 5340742 A

TITLE: Process for growing thraustochytrium and schizochytrium using non-chloride salts to produce a microfloral biomass having omega-3-highly unsaturated fatty acids

DATE-ISSUED: August 23, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 435/256.8; 435/134, 435/254.1, 435/257.1, 435/911, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 13. Document ID: US 5340594 A

L4: Entry 13 of 23

File: USPT

Aug 23, 1994

US-PAT-NO: 5340594  
DOCUMENT-IDENTIFIER: US 5340594 A

TITLE: Food product having high concentrations of omega-3 highly unsaturated fatty acids

DATE-ISSUED: August 23, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 426/49; 426/53, 426/601, 435/134, 435/243, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMC	Draw Desc	Image
-----	-----------	-------

---

☐ 14. Document ID: US 5130242 A

L4: Entry 14 of 23 File: USPT Jul 14, 1992

US-PAT-NO: 5130242  
DOCUMENT-IDENTIFIER: US 5130242 A

TITLE: Process for the heterotrophic production of microbial products with high concentrations of omega-3 highly unsaturated fatty acids

DATE-ISSUED: July 14, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO		

US-CL-CURRENT: 435/134; 426/49, 426/53, 426/601, 435/243, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KMC	Draw Desc	Image
-----	-----------	-------

---

☐ 15. Document ID: JP 2001149087 A

L4: Entry 15 of 23 File: JPAB Jun 5, 2001

PUB-NO: JP02001149087A  
DOCUMENT-IDENTIFIER: JP 2001149087 A  
TITLE: HETEROTROPHIC PRODUCTION OF MICROBIAL PRODUCT CONTAINING &omega;-3  
HIGHLY UNSATURATED FATTY ACID AT HIGH CONCENTRATION

PUBN-DATE: June 5, 2001

INVENTOR-INFORMATION:

NAME	COUNTRY
BARCLAY, WILLIAM R	

INT-CL (IPC): C12P 7/64; A23L 1/28; A23L 1/30; C11B 5/00; C11C 1/00; C12N 1/12;  
C12N 1/14

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

---

☐ 16. Document ID: JP 2001057881 A

L4: Entry 16 of 23

File: JPAB

Mar 6, 2001

PUB-NO: JP02001057881A

DOCUMENT-IDENTIFIER: JP 2001057881 A

TITLE: GROWTH OF MICROORGANISM CONTAINING HIGH-CONCENTRATION OMEGA-3-BASED  
HIGHLY UNSATURATED FATTY ACID

PUBN-DATE: March 6, 2001

## INVENTOR-INFORMATION:

NAME

COUNTRY

BARCLAY, WILLIAM R

INT-CL (IPC): C12N 1/10; A23L 1/20; A23L 1/28; C11B 1/02; C11C 3/00; C12N 1/12

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Clip Img	Image
------	-----------	----------	-------

---

☐ 17. Document ID: US 5698244 A

L4: Entry 17 of 23

File: EPAB

Dec 16, 1997

PUB-NO: US005698244A

DOCUMENT-IDENTIFIER: US 5698244 A

TITLE: Method for raising animals having high concentrations of omega-3 highly  
unsaturated fatty acids

PUBN-DATE: December 16, 1997

## INVENTOR-INFORMATION:

NAME

COUNTRY

BARCLAY, WILLIAM R

US

INT-CL (IPC): A01K 67/00

EUR-CL (EPC): A23L001/03; A23L001/20, A23L001/212 , A23L001/314 , A23L001/32 ,  
A23L001/325 , A23L001/36 , C12N001/14 , C12P007/64 , A23K001/00 , A23K001/16 ,  
A23K001/18 , A23K001/18 , A23L001/30 , A61K031/20

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

---

☐ 18. Document ID: US 5656319 A

L4: Entry 18 of 23

File: EPAB

Aug 12, 1997

PUB-NO: US005656319A  
DOCUMENT-IDENTIFIER: US 5656319 A  
TITLE: Food product with high concentrations of omega-3 highly unsaturated fatty acids

PUBN-DATE: August 12, 1997

INVENTOR-INFORMATION:

NAME

COUNTRY

BARCLAY, WILLIAM R

US

INT-CL (IPC): A23L 1/00

EUR-CL (EPC): A23L001/20; A23L001/212, A23L001/32 , A23L001/36 , A61K031/20 , C12N001/14 , C12P007/64 , A23K001/00 , A23K001/16 , A23K001/18 , A23K001/18 , A23K001/18 , A23K001/18 , A23L001/03 , A23L001/30 , A23L001/31 , A23L001/314 , A23L001/315 , A23L001/325 , A23L001/33 , C11B001/10

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

---

☐ 19. Document ID: US 5340594 A

L4: Entry 19 of 23

File: EPAB

Aug 23, 1994

PUB-NO: US005340594A

DOCUMENT-IDENTIFIER: US 5340594 A

TITLE: Food product having high concentrations of omega-3 highly unsaturated fatty acids

PUBN-DATE: August 23, 1994

INVENTOR-INFORMATION:

NAME

COUNTRY

BARCLAY, WILLIAM R

US

INT-CL (IPC): A23D 9/00

EUR-CL (EPC): A23K001/00; A23K001/16, A23K001/18 , A23K001/18 , A23K001/18 , A23K001/18 , A23L001/03 , A23L001/20 , A23L001/212 , A23L001/30 , A23L001/31 , A23L001/314 , A23L001/315 , A23L001/32 , A23L001/325 , A23L001/33 , A23L001/36 , A61K031/20 , A61K031/20 , C11B001/10 , C12N001/14 , C12P007/64

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

---

☐ 20. Document ID: US 5130242 A

L4: Entry 20 of 23

File: EPAB

Jul 14, 1992

PUB-NO: US005130242A

DOCUMENT-IDENTIFIER: US 5130242 A

TITLE: Process for the heterotrophic production of microbial products with high concentrations of omega-3 highly unsaturated fatty acids

PUBN-DATE: July 14, 1992

## INVENTOR-INFORMATION:

NAME

BARCLAY, WILLIAM R

COUNTRY

US

INT-CL (IPC): A23B 7/10; A23D 9/00; C12N 1/00; C12P 7/64

EUR-CL (EPC): A23K001/00; A23K001/16, A23K001/18 , A23K001/18 , A23K001/18 ,  
A23K001/18 , A23L001/03 , A23L001/20 , A23L001/212 , A23L001/30 , A23L001/31 ,  
A23L001/314 , A23L001/315 , A23L001/32 , A23L001/325 , A23L001/33 , A23L001/36  
, A61K031/20 , A61K031/20 , C11B001/10 , C12N001/14 , C12P007/64

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

---

Generate Collection
---------------------

---

Term	Documents
THRAUSTOCHYTRIALES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	22
THRAUSTOCHYTRIALE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
THRAUSTOCHYTRIALES.USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	23

---

Display
---------

10
----

Documents, starting with Document:

21
----

**Display Format:**

CIT
-----

Change Format
---------------

**WEST**[Generate Collection](#)**Search Results - Record(s) 21 through 23 of 23 returned.**☐ 21. Document ID: WO 9107498 A1

L4: Entry 21 of 23

File: EPAB

May 30, 1991

PUB-NO: WO009107498A1

DOCUMENT-IDENTIFIER: WO 9107498 A1

TITLE: PROCESS FOR THE HETEROTROPHIC PRODUCTION OF PRODUCTS WITH HIGH CONCENTRATIONS OF OMEGA-3 HIGHLY UNSATURATED FATTY ACIDS

PUBN-DATE: May 30, 1991

## INVENTOR-INFORMATION:

NAME

COUNTRY

BARCLAY, WILLIAM R

US

US-CL-CURRENT: 435/134; 435/254.1, 435/257.1

INT-CL (IPC): A01K 61/00; A61K 31/20; A61K 35/78; C12N 1/12; C12N 1/14; C12P 7/64

EUR-CL (EPC): A23K001/18; A23K001/18, A23L001/20 , A23L001/212 , A23L001/31 , A23L001/314 , A23L001/315 , A23L001/32 , A23L001/325 , A23L001/33 , A23L001/36 , A61K031/20 , C11B001/10 , C12N001/14 , A23K001/00 , A23K001/16 , A23K001/18 , A23K001/18 , A23L001/03 , A61K031/20 , C12P007/64 , A23L001/30

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

K00C	Draw Desc	Image
------	-----------	-------

☐ 22. Document ID: US 5698244 A

L4: Entry 22 of 23

File: DWPI

Dec 16, 1997

DERWENT-ACC-NO: 1998-051447  
DERWENT-WEEK: 200119  
COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Raising animal producing flesh, milk or eggs - by using feed containing Thraustochytriales or derived highly unsaturated fatty acids, providing health food products for human consumption

INVENTOR: BARCLAY, W R

PRIORITY-DATA: 1995US-0483477 (June 7, 1995), 1988US-0241410 (September 7, 1988), 1989US-0439093 (November 17, 1989), 1990US-0580778 (September 11, 1990), 1992US-0911760 (July 10, 1992), 1994US-0292736 (August 18, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5698244 A	December 16, 1997		007	A01K067/00

INT-CL (IPC): A01K 67/00

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

---

☐ 23. Document ID: JP 2001149087 A, WO 9107498 A, AU 9067195 A, US 5130242 A, EP 512997 A1, US 5340594 A, AU 657259 B, EP 512997 A4, JP 08509355 W, EP 512997 B1, US 5656319 A, DE 69031223 E, ES 2106736 T3

L4: Entry 23 of 23

File: DWPI

Jun 5, 2001

DERWENT-ACC-NO: 1991-178110  
DERWENT-WEEK: 200138  
COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Food prods. contg. omega-3 highly unsatd. fatty acids - or  
Thraustochytriales microorganisms producing them

INVENTOR: BARCLAY, W R

PRIORITY-DATA: 1990US-0580778 (September 11, 1990), 1989US-0439093 (November 17, 1989), 1989US-0439693 (November 17, 1989), 1988US-0241410 (September 7, 1988), 1992US-0911760 (July 10, 1992), 1994US-0292736 (August 18, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2001149087 A	June 5, 2001		038	C12P007/64
WO 9107498 A	May 30, 1991		090	
AU 9067195 A	June 13, 1991		000	
US 5130242 A	July 14, 1992		029	C12P007/64
EP 512997 A1	November 19, 1992	E	090	C12P007/64
US 5340594 A	August 23, 1994		030	A23D009/00
AU 657259 B	March 9, 1995		000	A23L001/30
EP 512997 A4	July 28, 1993		000	
JP 08509355 W	October 8, 1996		091	A23L001/30
EP 512997 B1	August 6, 1997	E	047	C12P007/64
US 5656319 A	August 12, 1997		028	A23L001/00
DE 69031223 E	September 11, 1997		000	C12P007/64
ES 2106736 T3	November 16, 1997		000	C12P007/64

INT-CL (IPC): A01K 61/00; A01K 67/00; A23B 7/10; A23D 9/00; A23K 1/16; A23L 1/00; A23L 1/28; A23L 1/30; A23L 1/302; A61K 31/20; A61K 35/70; A61K 35/78; C11B 5/00; C11C 1/00; C12N 1/00; C12N 1/12; C12N 1/14; C12P 7/64; C12P 7/64; C12P 7/64; C12R 1/645; C12R 1/89; C12N 1/14; C12R 1/645; C12P 7/64; C12R 1/645

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

Generate Collection

Term	Documents
THRAUSTOCHYTRIALES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	22
THRAUSTOCHYTRIALE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
THRAUSTOCHYTRIALES.USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	23

Display

10

Documents, starting with Document:

23

Display Format:

CIT

Change Format